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WHAT IS CLAIMED IS:

- 1. A disc drive comprising:
 - a chassis;
 - at least one disc;
- a spindle assembly rotationally supporting the at least one disc relative to the chassis to form a flow field along a surface of the at least one disc via rotation of the at least one disc;
 - a head assembly including a suspension supporting at least one head positionable proximate to the disc surface; and
- a flow controller supported in the flow field along the disc surface and including a plurality of streamline flow passages to reduce turbulence in the flow field.
- 2. The disc drive of claim 1 wherein the flow controller is a flow gate supported upstream of flow of the flow field to the head assembly.
 - 3. The disc drive of claim 1\wherein the flow controller is a flow gate supported downstream of flow of the flow field from the head assembly.
- 20 4. The disc drive of claim 1 wherein the flow controller includes a plurality of flow gates supported in the flow field along the disc surface of the at least one disc.
 - 5. The disc drive of claim 4 wherein the plurality of flow gates includes an inflow gate to condition flow to the head assembly and an outflow gate to condition flow excited by the head assembly.
 - 6. The disc drive of claim 1 wherein the plurality of flow passages include circumferential radially spaced flow passages.

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- 7. The disc drive of claim 6 wherein the circumferential radially spaced flow passages are formed of a plurality of radially spaced circumferential fins supported relative to the at least one disc.
- 8. The disc drive of claim 1 wherein the flow controller includes a honeycomb structure forming the plurality of streamline flow passages.
- 9. The disc drive of claim 1 wherein the flow controller includes a block structure forming the plurality of streamline flow passages.
 - 10. The disc drive of claim 1 wherein the flow controller includes an array of tubes forming the plurality of streamline flow passages.
- 11. The disc drive of claim 1/wherein the head assembly is pivotally supported to move between an inner position and an outer position and a width of the flow controller extends between the inner and outer positions of the head assembly to condition flow to the head assembly.
- 20 12. The disc drive of claim 1 wherein the spindle assembly supports a plurality of discs spaced to form a gap therebetween and including at least one flow controller supported in the gap between adjacent discs.
- 13. The disc drive of claim 12 including a plurality of flow controllers
 25 supported relative to the plurality of discs.
 - 14. The disc drive of claim 1 wherein the streamline flow passages are angled between an inlet and an outlet of the flow passages to redirect the flow field.

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- 15. The disc drive of claim 14 wherein the streamline flow passages are angled to direct the flow field inwardly toward an inner diameter of the at least one disc.
- 16. The disc drive of claim 14 wherein the streamline flow passages are angled to direct the flow field outwardly toward an outer diameter of the at least one disc.
- 17. A disc drive comprising:

 at least one disc rotatable about a spindle axis and forming a flow field

 along a surface of the at least one disc and a head assembly

 supported relative to the surface of the at least one disc to read

 data from or write data to the at least one disc; and

 means for controlling flow along the flow field for reducing turbulent

 flow along the surface of the at least one disc.
 - 18. The disc drive of claim 16 wherein the means for controlling flow includes a flow gate including a plurality of streamline flow passages.
 - 19. The disc drive of claim 17 wherein the flow gate is supported upstream of flow of the flow field to the head assembly.
- 20. The disc drive of claim 17/wherein the flow gate is supported downstream of flow of the flow field from the head assembly.
 - 21. The disc drive of claim/16 wherein the means for controlling flow includes a plurality of radially spaced circumferential flow passages.

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22. The disc drive of claim 16 wherein the means for controlling flow includes a plurality of streamlined angled flow passages.

- 23. In combination;
 - at least one disc supported by a spindle assembly rotationally coupled to a chassis and rotatable to induce a flow field along a surface of the disc by rotation of the at least one disc; and
 - a flow device supported in the flow field and including a plurality of streamline flow passages to reduce flow turbulence in the flow field.
- 24. The combination of claim 22 including a plurality of stacked discs supported by the spindle assembly and a plurality of flow devices supported relative to the stacked discs.
- 25. The combination of claim 22 and further comprising:

 a head assembly supporting at least one head relative to the surface of
 the at least one disc and the flow device is a flow gate supported
 upstream of flow of the flow field to the head assembly.
- 26. The combination of claim 22 and further comprising:

 a head assembly supporting at least one head relative to the surface of
 the at least one disc and the flow device is a flow gate supported
 downstream of flow of the flow field from the head assembly.
- 27. The combination of claim 22 wherein the plurality of flow passages include a plurality of radially spaced circumferential flow passages.

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28. The combination of claim 22 wherein the streamline flow passages are angled to redirect the flow field.

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